

CROUP 1 Reducted from automate downgrading and

of film forecast

109 SIMH

interpreter to quickly and simply load two rolls of

direct response to the requirement to scan the large volumes

imagery (one from each camera) and then view either roll projected upon a 30" X 30" high-resolution screen. When an area

25X1

It will permit the 25X1

25X1

25X1

25X1

SUBJECT: Request for Approval to Contract for the Fabrication of a Prototype Scan and Search Photo Interpretation Station with

1970 R&D Funds

requiring more detailed investigation appears on the screen, the interpreter can automatically advance the same imagery to the integral light table and view the film either monoscopically or in stereo with a microstereoscope. This aproach, therefore, combines the advantages of rear-projection and direct viewing in a single system.

4. In our estimation, the primary advantage of the proposed photo interpretation station will probably lie in the area of operational effectiveness; i.e., diminution of the probability of overlooking an intelligence "find." In addition, there may be some increase in efficiency with respect to the scan and search operation because the instrument, as configured, comprises what we believe to be the most efficient combination possible of direct and rear-projection viewing. The greatly increased field of view provided by the rear-projection viewer portion of the station

length of the roll can be projected on the screen at 4X magnification) is expected to provide the photo interpreter with the additional contextual data, often so important to the photo interpretation process. The light table and microstereoscope section of the station will then allow the photo interpreter to avail himself instantly of the higher contrast and magnification necessary for confirming and analyzing specific targets without burdening him with the tedious, time-consuming task of removing the film from the projector and reloading it on a light table. Utilizing the prototype, we will conduct operational testing and data collection to ascertain, as empirically as possible, the effectiveness of the instrument; results of these tests, along with a cost/effectiveness analysis, will form the basis for any decision as to whether or not to incorporate the station into the NPIC equipment inventory.

5. The proposed program requires seventeen months for the fabrication of the prototype instrument. The probability of success of this program is considered to be high because

op segret

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25X1

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